

Amendments to the Specification

Please amend the paragraph beginning at page 2, line 33 through page 3, line 5 as follows:

This object is achieved by a transmitting device for transmitting signals in a wireless OFDM communication system with STTD ~~according to claim 1~~. The transmitting device according to the present invention comprises encoding means for encoding a data stream on the basis of a STTD scheme and outputting a first and a second STTD encoded data stream, a first and a second antenna means for transmitting the data of the first and the second data stream, respectively, in OFDM signals, said first and said second antenna means being arranged spaced apart from each other in a space diversity arrangement, pilot symbol generating means for generating pilot symbols to be transmitted among said data of said first and second data stream, whereby first pilot symbols are transmitted via the first antenna and second pilot symbols are transmitted via said second antenna, some of said second pilot symbols being orthogonal to corresponding ones of said first pilot symbols.

Please amend the paragraph beginning at page 3, lines 7-19 as follows:

The above object is further achieved by a receiving device for receiving signals in a wireless OFDM communication system with STTD ~~according to claim 8~~. The receiving device according to the present invention comprises a single antenna means for receiving STTD encoded signals transmitted from a first and a second space diversity antenna means of a transmitting device of the OFDM communication system, said first and said second space diversity antenna means transmitting corresponding pilot symbols in said STTD encoded signals, whereby at least a part of the pilot symbols transmitted from the second antenna

means is orthogonal to corresponding pilot symbols transmitted from the first antenna means, processing means for detecting pilot symbols in the received STTD encoded signals, for processing detected pilot symbols and performing a channel estimation on the basis of said processing to separately determine the transmission quality of STTD encoded signals transmitted from said first and said second antenna means, respectively.